

Amendments to the Specification:

Please replace the title beginning at page 1, line 1 with the following amended title:

Light Emitting Devices with Patterned Surfaces

Please delete previous abstract at page 43 and add the following new abstract:

Light-emitting devices, and related components, systems and methods are disclosed. The light-emitting device can include a multi-layer stack of materials including a light-generating region and a first layer supported by the light-generating region. A surface of the first layer can be configured so that light generated by the light-generating region can emerge from the light-emitting device via the surface of the first layer. The surface of the first layer can have a dielectric function that varies spatially according to a pattern that has an ideal lattice constant and a detuning parameter with a value greater than zero.

Please add the following new paragraphs at page 12, line 22:

FIG. 20 is a side view of an LED with a patterned surface.

FIG. 21 is a side view of an LED with a patterned surface.

FIG. 22 is a side view of an LED with a patterned surface.

Please replace the paragraph beginning at page 31, line 24 with the following amended paragraph:

As a further example, while the varying pattern in dielectric function has been described as extending into n-doped layer 134 only (which can substantially reduce the likelihood of surface recombination carrier losses) in addition to making use of the entire light-generating region, in some embodiments, the varying pattern in dielectric function can extend beyond n-doped layer (e.g., into current spreading layer 132, light-generating region 130, and/or p-doped layer 128). FIG. 21 shows an embodiment in which the varying pattern in dielectric function extends into layer 132. FIG. 22 shows an embodiment in which the varying pattern in

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Serial No. : 10/723,987
Filed : November 26, 2003
Page : 3 of 12

Attorney's Docket No.: 16459-006001 / LD-6

dielectric function extends into layer 130. FIG. 23 shows an embodiment in which the varying pattern in dielectric function extends into layer 128.